

Demand Side Worksheet							
EGR Name:		EGR3					
Occupation Name:		CNC-MIMM					
Occupation SOC:		hybrid of 51-4011, 51-4041, 49-9043					
1. Estimated Job vacancies, end of 2005							
Lower estimate		100					
Middle estimate		200					
Upper estimate		300					
2. Projected number of job openings annually due to growth and net replacements:							
Year	2006	2007	2008	2009	2010	2011	2012
A. Lower projection:							
Total, all industries in EGR	150	150	150	150	150	150	150
RUBBER & PLASTICS MANF (326)	23	23	23	23	23	23	23
PRI METAL MANF (331)	19	19	19	19	19	19	19
FAB METAL MANF (332)	47	47	47	47	47	47	47
MACHINERY MANF (333)	29	29	29	29	29	29	29
TRANS EQUIP MANF (336)	33	33	33	33	33	33	33
B. Middle projection:							
Total, all industries in EGR	212	212	212	212	212	212	212
RUBBER & PLASTICS MANF (326)	32	32	32	32	32	32	32
PRI METAL MANF (331)	27	27	27	27	27	27	27
FAB METAL MANF (332)	66	66	66	66	66	66	66
MACHINERY MANF (333)	40	40	40	40	40	40	40
TRANS EQUIP MANF (336)	46	46	46	46	46	46	46
C. Upper projection:							
Total, all industries in EGR	212	212	220	230	230	250	250
RUBBER & PLASTICS MANF (326)	32	32	33	35	35	38	38
PRI METAL MANF (331)	27	27	28	29	29	32	32
FAB METAL MANF (332)	66	66	69	72	72	78	78
MACHINERY MANF (333)	40	40	42	44	44	48	48
TRANS EQUIP MANF (336)	46	46	48	50	50	54	54
Notes:							
This worksheet allows for "ranges" of estimates and projections in recognition of the fact that these values cannot be known with certainty.							
The meanings of the words "Lower," "Middle," and "Upper" are as follows:							
A. "Lower" means that your EGR thinks the probability is no more than 25% that the true value lies below it.							
B. "Middle" means that your EGR thinks the probability is about equal that the true value lies either below it or above it.							
C. "Upper" means that your EGR thinks the probability is no more than 25% that the true value lies above it.							

Supply Side Worksheet #1 ("Production")							
EGR Name:	EGR3						
Occupation Name:	CNC-MIMM						
Occupation SOC:	hybrid of 51-4011, 51-4041, 49-9043, 49-9041, 49-9042						
Projected "production" of new entrants into this occupation, by year							
Year	2006	2007	2008	2009	2010	2011	2012
a. Graduates/completers of education and training programs in this EGR:							
IVY TECH NE-ASSC DEGREE	20	25	30	30	30	30	30
*ANTHIS CAREER CENTER	10	10	10	10	10	10	10
VANTAGE VOCATIONAL (VanV	5	5	5	5	5	5	5
*FREEDOM ACADEMY (Noble Cou	0	15	20	24	30	30	30
b. Other sources of entrants (other than in-migration)							
IVY TECH MUNCIE (Marion)	12	12	12	12	12	12	12
*IVY TECH NE-cert (JOBWORK	36	36	36	36	36	36	36
*in house training to accompnay ANTHIS, FREEDOM, and cert programs							
c. Total new supply	83	103	113	117	123	123	123

Supply Side Worksheet #2 ("Migration")							
EGR Name:	EGR3						
Occupation Name:	CNC-MIMM						
Occupation SOC:	hybrid of 51-4011, 51-4041, 49-9043, 49-9041, 49-9042						
Year	2006	2007	2008	2009	2010	2011	2012
****MIGRATION IS CALCULATED ONLY ON A NET BASIS							
1. Projected IN-migration of workers in this occupation to this EGR, by year							
a. From outside this EGR							
b. From other occupations							
2. Projected OUT-migration of workers in this occupation to this EGR, by year							
a. To places outside this EGR	26	26	24	22	20	18	16
b. Into other occupations							
3. Net IN-Migration	-26	-26	-24	-22	-20	-18	-16

Worksheet for Calculating Shortages or Surpluses of One Occupation								
EGR Name:	EGR-3							
Occupation Name:	CNC-MIMM							
Occupation SOC:	hybrid of 51-4011, 51-4041, 49-9043, 49-9041, 49-9042							
A. Lower projection:								
Total, all industries in EGR								
Year	2005	2006	2007	2008	2009	2010	2011	2012
Carryover from last year (+/-)		100	193	266	327	382	429	474
New demand during year		150	150	150	150	150	150	150
New production during year		83	103	113	117	123	123	123
Net migration during year		-26	-26	-24	-22	-20	-18	-16
Net change during year		93	73	61	55	47	45	43
Carryover to next year (+/-)	100	193	266	327	382	429	474	517
B. Middle projection:								
Total, all industries in EGR								
Year	2005	2006	2007	2008	2009	2010	2011	2012
Carryover from last year (+/-)		200	355	490	613	730	839	946
New demand during year		212	212	212	212	212	212	212
New production during year		83	103	113	117	123	123	123
Net migration during year		-26	-26	-24	-22	-20	-18	-16
Net change during year		155	135	123	117	109	107	105
Carryover to next year (+/-)	200	355	490	613	730	839	946	1051
C. Upper projection:								
Total, all industries in EGR								
Year	2005	2006	2007	2008	2009	2010	2011	2012
Carryover from last year (+/-)		300	455	590	721	856	983	1,128
New demand during year		212	212	220	230	230	250	250
New production during year		83	103	113	117	123	123	123
Net migration during year		-26	-26	-24	-22	-20	-18	-16
Net change during year		155	135	131	135	127	145	143
Carryover to next year (+/-)	300	455	590	721	856	983	1,128	1,271
Notes:								
(1) A positive (+) carryover indicates a "shortage" of workers in this occupation. A negative (-) carryover indicates the opposite.								
(2) This worksheet allows for "ranges" of estimates and projections in recognition of the fact that these values cannot be known with certainty. The meanings of the words "Lower," "Middle," and "Upper" are as follows:								
A. "Lower" means that your EGR thinks the probability is no more than 25% that the true value lies below it.								
B. "Middle" means that your EGR thinks the probability is about equal that the true value lies either below it or above it.								
C. "Upper" means that your EGR thinks the probability is no more than 25% that the true value lies above it.								

Demand Side Worksheet							
EGR Name:	EGR 3						
Occupation Name:	Computer Systems Analysts						
Occupation SOC:	15-1051						
1. Estimated Job vacancies, end of 2005							
Lower estimate	43						
Middle estimate	47						
Upper estimate	64						
2. Projected number of job openings annually due to growth and net replacements:							
Year	2006	2007	2008	2009	2010	2011	2012
A. Lower projection:							
Total, all industries in EGR	26	26	28	28	30	32	36
Merchant Wholesalers, Durable	7	7	8	8	8	8	10
Insurance Carriers	3	3	3	3	3	3	3
Hospitals	3	3	3	3	3	3	4
Computer & Electronic Mfg.	3	3	3	3	3	3	4
B. Middle projection:							
Total, all industries in EGR	48	50	50	50	52	52	55
Merchant Wholesalers, Durable	13	14	14	14	14	14	15
Insurance Carriers	5	5	5	5	6	6	6
Hospitals	5	5	5	5	5	6	6
Computer & Electronic Mfg.	5	5	5	5	5	6	6
C. Upper projection:							
Total, all industries in EGR	55	57	59	61	63	65	65
Merchant Wholesalers, Durable	15	15	16	16	17	18	18
Insurance Carriers	6	6	6	7	7	7	7
Hospitals	6	6	6	6	7	7	7
Computer & Electronic Mfg.	6	5	5	5	5	6	6
Notes:							
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Supply Side Worksheet #1 ("Production")							
EGR Name:		EGR 3					
Occupation Name:		Computer Systems Analysts					
Occupation SOC:		15-1051					
Projected "production" of new entrants into this occupation, by year							
Year	2006	2007	2008	2009	2010	2011	2012
a. Graduates/completers of education and training programs in this EGR:							
Huntington University	2	2	2	2	2	2	2
IN Institute of Technology	14	14	14	14	14	14	14
IPFW	7	7	8	8	8	8	8
Tri-State	2	2	2	2	2	2	2
Taylor	11	11	11	11	11	11	11
BSU/IU/Purdue	8	8	8	8	8	8	8
b. Other sources of entrants (other than in-migration)							
Associate Degrees	5	5	5	5	5	5	5
Masters Degrees	2	2	2	2	2	2	2
In-House Training	5	5	5	5	5	5	5
c. Total new supply	56	56	57	57	57	57	57

Supply Side Worksheet #2 ("Migration")							
EGR Name:		EGR 3					
Occupation Name:		Computer Systems Analysts					
Occupation SOC:		15-1051					
Year	2006	2007	2008	2009	2010	2011	2012
1. Projected IN-migration of workers in this occupation to this EGR, by year							
a. From outside this EGR							
b. From other occupations							
2. Projected OUT-migration of workers in this occupation to this EGR, by year							
a. To places outside this EGR	10	10	7	6	0	0	0
b. Into other occupations							
3. Net IN-Migration	-10	-10	-7	-6	0	0	0

Worksheet for Calculating Shortages or Surpluses of One Occupation

EGR Name: EGR-3

Occupation Name: Computer Systems Analysts

Occupation SOC: 15-1051

A. Lower projection:

Total, all industries in EGR

Year	2005	2006	2007	2008	2009	2010	2011	2012
Carryover from last year (+/-)		43	23	3	-19	-42	-69	-94
New demand during year		26	26	28	28	30	32	36
New production during year		56	56	57	57	57	57	57
Net migration during year		-10	-10	-7	-6	0	0	0
Net change during year		-20	-20	-22	-23	-27	-25	-21
Carryover to next year (+/-)	43	23	3	-19	-42	-69	-94	-115

B. Middle projection:

Total, all industries in EGR

Year	2005	2006	2007	2008	2009	2010	2011	2012
Carryover from last year (+/-)		47	49	53	53	52	47	42
New demand during year		48	50	50	50	52	52	55
New production during year		56	56	57	57	57	57	57
Net migration during year		-10	-10	-7	-6	0	0	0
Net change during year		2	4	0	-1	-5	-5	-2
Carryover to next year (+/-)	47	49	53	53	52	47	42	40

C. Upper projection:

Total, all industries in EGR

Year	2005	2006	2007	2008	2009	2010	2011	2012
Carryover from last year (+/-)		64	73	84	93	103	109	117
New demand during year		55	57	59	61	63	65	65
New production during year		56	56	57	57	57	57	57
Net migration during year		-10	-10	-7	-6	0	0	0
Net change during year		9	11	9	10	6	8	8
Carryover to next year (+/-)	64	73	84	93	103	109	117	125

Notes:

(1) A positive (+) carryover indicates a "shortage" of workers in this occupation. A negative (-) carryover indicates the opposite.

(2) This worksheet allows for "ranges" of estimates and projections in recognition of the fact that these values cannot be known with certainty. The meanings of the words "Lower," "Middle," and "Upper" are as follows:

A. "Lower" means that your EGR thinks the probability is no more than 25% that the true value lies below it.

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C. "Upper" means that your EGR thinks the probability is no more than 25% that the true value lies above it.

Demand Side Worksheet							
EGR Name:		EGR 3					
Occupation Name:		Industrial Engineers					
Occupation SOC:		17-2112					
1. Estimated Job vacancies, end of 2005							
Lower estimate		75					
Middle estimate		110					
Upper estimate		185					
2. Projected number of job openings annually due to growth and net replacements:							
Year	2006	2007	2008	2009	2010	2011	2012
A. Lower projection:							
Total, all industries in EGR	14	14	14	14	14	14	14
Trans. Equipment Manf	5	5	5	5	5	5	5
Computer and Electronic Pro.	1	1	1	0	0	0	0
Plastics & Rubber Products	2	2	2	3	4	4	4
B. Middle projection:							
Total, all industries in EGR	28	30	30	31	33	33	35
Trans. Equipment Manf	10	11	11	11	12	12	12
Computer and Electronic Pro.	3	3	3	2	2	1	1
Plastics & Rubber Products	3	3	3	4	4	4	4
C. Upper projection:							
Total, all industries in EGR	38	40	42	42	44	44	44
Trans. Equipment Manf	14	15	16	16	16	16	16
Computer and Electronic Pro.	4	4	4	3	3	3	3
Plastics & Rubber Products	3	3	3	4	5	5	5
Notes:							
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Supply Side Worksheet #1 ("Production")							
EGR Name:	EGR 3						
Occupation Name:	Industrial Engineers						
Occupation SOC:	17-2112						
Projected "production" of new entrants into this occupation, by year							
Year	2006	2007	2008	2009	2010	2011	2012
a. Graduates/completers of education and training programs in this EGR:							
Purdue University - W. Laf.	25	25	25	25	26	26	26
Indiana Institute of Tech.	14	14	14	14	14	14	14
All other grad. & undergrad engineering programs in IN	75	75	75	75	75	75	75
b. Other sources of entrants (other than in-migration)							
non-Indiana schools	5	5	5	5	5	5	5
Source #2							
etc. (add as necessary)							
c. Total new supply	119	119	119	119	120	120	120

Supply Side Worksheet #2 ("Migration")							
EGR Name:	EGR 3						
Occupation Name:	Industrial Engineers						
Occupation SOC:	17-2112						
Year	2006	2007	2008	2009	2010	2011	2012
1. Projected IN-migration of workers in this occupation to this EGR, by year							
a. From outside this EGR							
b. From other occupations							
2. Projected OUT-migration of workers in this occupation to this EGR, by year							
a. To places outside this EGR	40	40	40	50	60	75	80
b. Into other occupations							
3. Net IN-Migration	-40	-40	-40	-50	-60	-75	-80

EGR Name: EGR 3									
Occupation Name: Industrial Engineers									
Occupation SOC: 17-2112									
A. Lower projection:									
Total, all industries in EGR									
Year	2005	2006	2007	2008	2009	2010	2011	2012	
Carryover from last year (+/-)		0	0	0	0	0	0	0	0
New demand during year		0	0	0	0	0	0	0	0
New production during year		0	0	0	0	0	0	0	0
Net migration during year		0	0	0	0	0	0	0	0
Net change during year		0	0	0	0	0	0	0	0
Carryover to next year (+/-)	0	0	0	0	0	0	0	0	0
B. Middle projection:									
Total, all industries in EGR									
Year	2005	2006	2007	2008	2009	2010	2011	2012	
Carryover from last year (+/-)		75	75	75	75	75	75	75	75
New demand during year		0	0	0	0	0	0	0	0
New production during year		0	0	0	0	0	0	0	0
Net migration during year		0	0	0	0	0	0	0	0
Net change during year		0	0	0	0	0	0	0	0
Carryover to next year (+/-)	75	75	75	75	75	75	75	75	75
C. Upper projection:									
Total, all industries in EGR									
Year	2005	2006	2007	2008	2009	2010	2011	2012	
Carryover from last year (+/-)		110	110	110	110	110	110	110	110
New demand during year		0	0	0	0	0	0	0	0
New production during year		0	0	0	0	0	0	0	0
Net migration during year		0	0	0	0	0	0	0	0
Net change during year		0	0	0	0	0	0	0	0
Carryover to next year (+/-)	110	110	110	110	110	110	110	110	110
Notes:									
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Demand Side Worksheet							
EGR Name: EGR3							
Occupation Name: REGISTERED NURSES							
Occupation SOC: 29-1111							
1. Estimated Job vacancies, end of 2005							
Lower estimate	160						
Middle estimate	220						
Upper estimate	260						
2. Projected number of job openings annually due to growth and net replacements:							
Year	2006	2007	2008	2009	2010	2011	2012
A. Lower projection:							
Total, all industries in EGR	163	164	164	164	165	166	166
Ambulatory Health Care	33	34	34	34	34	34	34
Hospitals	94	94	94	94	95	95	95
Nursing and Residential Care Facilities	17	17	17	17	17	17	18
Remainder (Gov, Educ, Ins,)	19	19	19	19	19	19	19
B. Middle projection:							
Total, all industries in EGR	386	391	397	403	409	415	421
Ambulatory Health Care	82	84	85	87	88	90	91
Hospitals	219	221	224	227	230	233	236
Nursing and Residential Care Facilities	40	41	41	42	43	44	44
Remainder (Gov, Educ, Ins,)	45	45	46	47	48	49	49
C. Upper projection:							
Total, all industries in EGR	487	499	511	524	536	550	563
Ambulatory Health Care	108	112	115	118	122	125	129
Hospitals	275	281	287	294	300	307	313
Nursing and Residential Care Facilities	47	49	50	51	53	54	55
Remainder (Gov, Educ, Ins,)	56	57	58	61	61	65	65
Notes: See worksheet "RN proj.xls for assumptions							
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Supply Side Worksheet #1 ("Production")							
EGR Name:	EGR3						
Occupation Name:	REGISTERED NURSES						
Occupation SOC:	29-1111						
Projected "production" of new entrants into this occupation, by year							
Year	2006	2007	2008	2009	2010	2011	2012
a. Graduates/completers of education and training programs in this EGR:							
IPFW (AS & BS)	130	130	130	130	130	130	130
USF (AS & BS)	90	90	90	90	90	90	90
IVY TECH NE	61	61	61	61	61	61	61
INDIANA WESLEYAN-MARION-BS	48	40	48	56	56	56	56
Huntington College-new program	0	25	30	30	35	35	35
IVY TECH (Marion) A.S. Nursing	20	20	20	20	20	20	20
Ball State, PurdueWL , Indiana State							
c. Total new supply	349	366	379	387	392	392	392

grad rates and RN licences pass rates listed in RN PRO.

Supply Side Worksheet #2 ("Migration")							
EGR Name:	EGR3						
Occupation Name:	REGISTERED NURSES *****HAV E NO REASON TO DEAL WITH OTHER						
Occupation SOC:	29111104130						
Year	2006	2007	2008	2009	2010	2011	2012
1. Projected IN-migration of workers in this occupation to this EGR, by year							
a. From outside this EGR	projected out migration is based on total migration calculations						
b. From other occupations							
2. Projected OUT-migration of workers in this occupation to this EGR, by year							
a. To places outside this EGR	11	11	13	13	13	19	19
b. Into other occupations							
3. Net IN-Migration	-11	-11	-13	-13	-13	-19	-19

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Worksheet for Calculating Shortages or Surpluses of One Occupation									
EGR Name: EGR 3									
Occupation Name: REGISTERED NURSES									
Occupation SOC: 29-1111									
A. Lower projection:									
Total, all industries in EGR									
Year	2005	2006	2007	2008	2009	2010	2011	2012	
Carryover from last year (+/-)		160	-15	-206	-408	-618	-832	-1039	
New demand during year		163	164	164	164	165	166	166	
New production during year		349	366	379	387	392	392	392	
Net migration during year		-11	-11	-13	-13	-13	-19	-19	
Net change during year		-175	-191	-202	-210	-214	-207	-207	
Carryover to next year (+/-)	160	-15	-206	-408	-618	-832	-1039	-1246	
B. Middle projection:									
Total, all industries in EGR									
Year	2005	2006	2007	2008	2009	2010	2011	2012	
Carryover from last year (+/-)		220	268	304	335	364	394	436	
New demand during year		386	391	397	403	409	415	421	
New production during year		349	366	379	387	392	392	392	
Net migration during year		-11	-11	-13	-13	-13	-19	-19	
Net change during year		48	36	31	29	30	42	48	
Carryover to next year (+/-)	220	268	304	335	364	394	436	484	
C. Upper projection:									
Total, all industries in EGR									
Year	2005	2006	2007	2008	2009	2010	2011	2012	
Carryover from last year (+/-)		260	409	553	698	848	1005	1182	
New demand during year		487	499	511	524	536	550	563	
New production during year		349	366	379	387	392	392	392	
Net migration during year		-11	-11	-13	-13	-13	-19	-19	
Net change during year		149	144	145	150	157	177	190	
Carryover to next year (+/-)	260	409	553	698	848	1005	1182	1372	
Notes:									
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